SPOTRON

Professional CdS Spot Meter

measures brightness
of small subject areas
even at a distance

prism reflex finder system

The Spotron finder system resembles that of a fine prism reflex camera. It covers a 19° field of view, and shows the subject upright and unreversed. Within this field, you see the 2° measuring area as a circular target. Also visible is the meter needle and Light Value scale, which provide direct LV readings.

complete, easy-to-read scales

Calibrated scales for ASA film ratings, lens apertures, light values, shutter speeds, and movie camera speeds are located on the lens barrel. Once you have set the ASA rating, a single adjustment gives you all exposure data at a glance. All numerals are large and clear, easy to read even in dim light.

CdS cell plus two solid-state circuits

The Spotron combines the use of a sensitive CdS cell with two independent solid-state circuits for accurate brightness measurements under virtually all light conditions. In average-to-bright light, the needle indicates the correct Light Value on the H scale. A touch of the pushbutton switches the low-level circuit into operation for dependable, direct readings on the L scale under minimum light conditions.

Spotron specifications

Effective Measuring Angle:	2°
Overall field of view:	19°
Film Speeds:	ASA 3 to 6400
Light Value scale:	2 to 18 LV
Lens Apertures:	f1.0 to f128
Shutter Speeds:	125 seconds to 1/8000th
Movie Camera Speeds:	8 to 128 frames/second
Batteries:	1.3 volt mercury, for high-level circuit; standard 22½ volt for low-level circuit
Battery tester:	built-in

The Spotron Professional CdS Spot Meter is a very special instrument

2° acceptance angle

It's as different from a conventional meter as a rifle from a shotgun. While most meters have light acceptance angles of 40° or more, the angle of the Spotron is only 2°. It enables you to measure the brightness of selected, small areas quickly and accurately—even at a distance.

At 25 feet, the Spotron will measure the brightness of an area barely more than 10 inches in diameter. This ability to provide selective brightness readings offers many advantages to the still and movie photographer.

selective exposure measurements

In conventional photography the Spotron user can adopt a specific reference tone value as the basis for determining exposure. Or he can average out highlight and shadow area readings.

The Spotron can also be used in special applications: photomicrography, macrophotography, copying, etc. It is almost indispensable for stage photography where distance and the use of spotlights and other restricted lighting make the use of conventional meter types virtually impractical.

brightness range measurements

Another important application for the Spotron is to determine subject brightness range as the basis for matching the scene to the contrast characteristics of film, or for achieving special or unusual contrast effects. This procedure is widely followed by professional cinematographers, and among many still photographers.

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